

**TRAFFIC SIGNAL WIRING DIAGRAM LEGEND**

PROPOSED	DESCRIPTION
⑤	ELECTRIC CABLE DENOTING NUMBER OF CONDUCTORS
⊠	SIGNAL FACE WITH BACKPLATE
⊞	DIRECTIONAL SIGNAL SECTION
⊞	12" SIGNAL SECTION
⊞	WALK/DON'T WALK SECTION + COUNT DOWN
⊞	GROUND WIRE (POLE)
⊞	GROUND WIRE (MAST ARM)
⊞	PEDESTRIAN PUSHBUTTON
---	CONDUIT
●	400 WATT LUMINAIRE

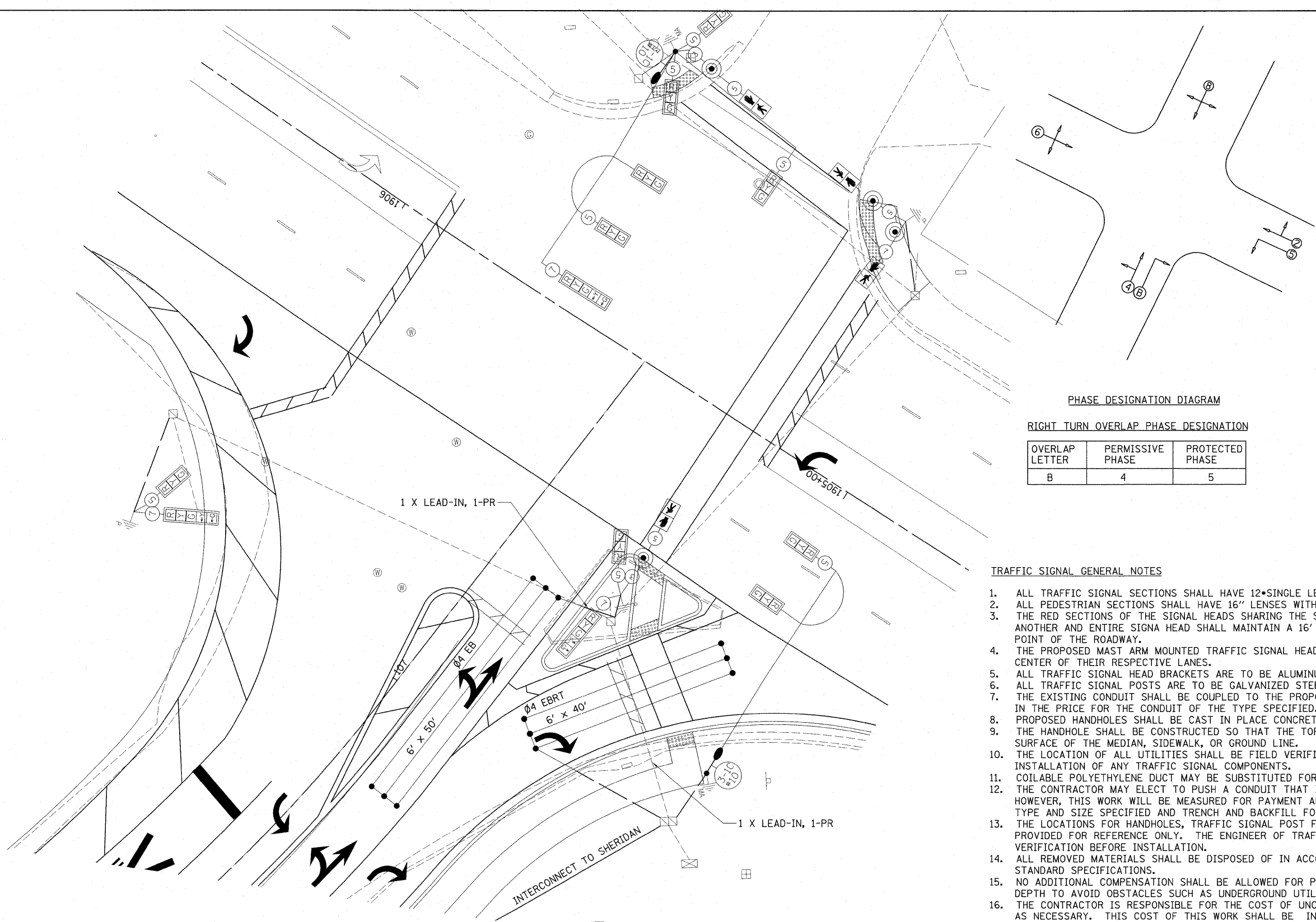
**PHASE DESIGNATION DIAGRAM**

**RIGHT TURN OVERLAP PHASE DESIGNATION**

OVERLAP LETTER	PERMISSIVE PHASE	PROTECTED PHASE
B	4	5

**TRAFFIC SIGNAL GENERAL NOTES**

- ALL TRAFFIC SIGNAL SECTIONS SHALL HAVE 12" SINGLE LED LENSES.
- ALL PEDESTRIAN SECTIONS SHALL HAVE 16" LENSES WITH A MAN/HAND OVERLAY AND COUNTDOWN TIMER.
- THE RED SECTIONS OF THE SIGNAL HEADS SHARING THE SAME MAST ARM SHALL BE LEVEL WITH ONE ANOTHER AND ENTIRE SIGNAL HEAD SHALL MAINTAIN A 16' MINIMUM CLEARANCE FROM THE HIGHEST POINT OF THE ROADWAY.
- THE PROPOSED MAST ARM MOUNTED TRAFFIC SIGNAL HEADS SHALL BE MOUNTED DIRECTLY OVER THE CENTER OF THEIR RESPECTIVE LANES.
- ALL TRAFFIC SIGNAL HEAD BRACKETS ARE TO BE ALUMINUM WITH A NATURAL FINISH.
- ALL TRAFFIC SIGNAL POSTS ARE TO BE GALVANIZED STEEL.
- THE EXISTING CONDUIT SHALL BE COUPLED TO THE PROPOSED CONDUIT. THIS WORK SHALL BE INCLUDED IN THE PRICE FOR THE CONDUIT OF THE TYPE SPECIFIED.
- PROPOSED HANDHOLES SHALL BE CAST IN PLACE CONCRETE HANDHOLES.
- THE HANDHOLE SHALL BE CONSTRUCTED SO THAT THE TOP OF THE FRAME WILL BE FLUSH WITH THE SURFACE OF THE MEDIAN, SIDEWALK, OR GROUND LINE.
- THE LOCATION OF ALL UTILITIES SHALL BE FIELD VERIFIED BY THE CONTRACTOR BEFORE THE INSTALLATION OF ANY TRAFFIC SIGNAL COMPONENTS.
- COILABLE POLYETHYLENE DUCT MAY BE SUBSTITUTED FOR PVC CONDUIT PUSHED.
- THE CONTRACTOR MAY ELECT TO PUSH A CONDUIT THAT IS SHOWN TO BE TRENCHED ON THE PLANS. HOWEVER, THIS WORK WILL BE MEASURED FOR PAYMENT AND PAID FOR AS CONDUIT IN TRENCH OF THE TYPE AND SIZE SPECIFIED AND TRENCH AND BACKFILL FOR ELECTRICAL WORK.
- THE LOCATIONS FOR HANDHOLES, TRAFFIC SIGNAL POST FOUNDATIONS, AND MAST ARM FOUNDATIONS ARE PROVIDED FOR REFERENCE ONLY. THE ENGINEER OF TRAFFIC SHALL BE NOTIFIED FOR LOCATION VERIFICATION BEFORE INSTALLATION.
- ALL REMOVED MATERIALS SHALL BE DISPOSED OF IN ACCORDANCE WITH ARTICLE 202.03 OF THE STANDARD SPECIFICATIONS.
- NO ADDITIONAL COMPENSATION SHALL BE ALLOWED FOR PLACING CONDUIT AT GREATER THAN 2 FT. MINIMUM DEPTH TO AVOID OBSTACLES SUCH AS UNDERGROUND UTILITIES.
- THE CONTRACTOR IS RESPONSIBLE FOR THE COST OF UNCOVERING OR HAND DIGGING AROUND UTILITIES AS NECESSARY. THIS COST OF THIS WORK SHALL BE INCLUDED IN THE UNIT PRICES FOR THE CONDUITS.
- ALL TRAFFIC SIGNAL MAST ARMS, POSTS, HANDHOLE LIDS AND RINGS, HANDHOLE FRAMES, CONTROLLER CABINETS, SERVICE RISERS, EXPOSED METALLIC CONDUITS, AND PHOTOCCELL RELAYS SHALL BE GROUNDED IN ACCORDANCE WITH NEC REQUIREMENTS.
- DRILLING HOLES THROUGH EXISTING CURB AND GUTTER, INSERTING CONDUIT AND FILLING WITH APPROVED SEALER FOR DETECTOR LOOPS SHALL BE INCLUDED IN THE CONTRACT.
- THE LENGTH OF DETECTOR LOOP CABLE FROM CURB TO THE HANDHOLE SHALL BE INCLUDED IN THE DETECTOR LOOP QUANTITY.
- LOOPS IN THE SAME LANE SHALL BE WOUND ALTERNATELY CLOCKWISE AND COUNTER CLOCKWISE.
- THE CONDUITS SHOWN CONNECTING THE BACK OF CURB TO THE ROADSIDE HANDHOLE SHALL CONTAIN ONLY DETECTOR LOOP CABLE.
- A 1/4" DIAMETER CONTINUOUS NYLON ROPE SHALL BE FURNISHED AND LEFT IN PLACE IN ALL CONDUITS BETWEEN HANDHOLES AND FOUNDATIONS OR CONTROLLER.



FILE NAME =	USER NAME = Ander-00846	DESIGNED - KNB	REVISED -	<b>STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION</b>	<b>NORTHMOOR RD. AND KNOXVILLE AVE. CABLE PLAN</b>	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
I:\09Jobs\09L00270\CAAD\Road\Sheet\c-10\cable.dgn		DRAWN - KNB	REVISED -			6647	08-00302-00-PV	PEORIA	85	42
PLOT SCALE = 1/8"=1'-0"		CHECKED - TMA	REVISED -			09-00047-01-PV		CONTRACT NO. 89526		
PLOT DATE = 11/05/2009		DATE - 10/16/2009	REVISED -			FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		ARA-M-50931391

SCALE: 1"=20' SHEET NO. OF SHEETS STA. TO STA.